

AMENDMENTS TO THE CLAIMS

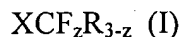
This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. – 53. (Canceled)

54. (Currently Amended) A composition comprising:

(a) at least one fluoroalkene having no bromine substituents and a total of at least four halogen substituents and being of Formula I:

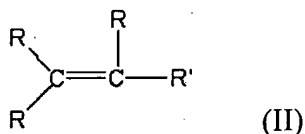


where X is a C₂ or a C₃ unsaturated, substituted ~~or unsubstituted, alkyl radical~~ and each R is independently Cl, F, Br, I or H and z is 1 to 3, provided that when said compound has at least one unsaturated terminal carbon, then there is not more than one F on the unsaturated, terminal carbon; and

(b) at least one adjuvant selected from the group consisting of lubricants, compatibilizers, surfactants, solubilizing agents, dispersing agents, cell stabilizers, cosmetics, polishing agents, medicaments, cleaners, fire retarding agents, colorants, chemical sterilants, stabilizers, polyols, polyol premix components and combinations of two or more of these, provided that when said composition is a heat transfer composition and said compound contains at least four F substituents, then there is no F on the unsaturated terminal carbon.

55. (Original) The composition of claim 54 having a Global Warming Potential (GWP) of not greater than about 150.

56. (Currently Amended) The composition of claim 55 wherein said at least one fluoroalkene is a compound of Formula II:



where each R is independently Cl, F, ~~Br~~, I or H

R' is $(CR_2)_nY$,

Y is CRF_2

and n is 0 or 1.

57. (Original) The composition of claim 56 wherein Y is CF_3 .
58. (Original) The composition of claim 56 wherein at least one R on the unsaturated terminal carbon is not F.
59. (Original) The composition of claim 56 wherein at least one R on the unsaturated terminal carbon is H.
60. (Original) A heat transfer composition comprising the composition of claim 54 wherein said adjuvant includes at least one lubricant.
61. (Original) A heat transfer composition comprising the composition of claim 54 wherein said adjuvant includes at least one compatibilizer.
62. (Original) The heat transfer composition of claim 61 wherein said compound of Formula I is present in an amount of at least about 50% by weight and said lubricant is present in an amount of at least about 30% by weight.
63. (Original) A blowing agent comprising the composition of claim 54 wherein said adjuvant includes at least one cell stabilizer.
64. (Original) A blowing agent comprising the composition of claim 54 wherein said compound of Formula I is present in an amount of from about 30% to about 50% by weight.
65. (Original) A sterilant composition comprising the composition of claim 54 wherein said adjuvant includes at least one chemical sterilant.
66. (Original) A composition according to claim 54 having no substantial acute toxicity.
67. (Original) A composition according to claim 54 having a low acute toxicity wherein said compound of Formula I consists essentially of one or more compounds wherein said fluoroalkene includes an unsaturated terminal carbon having not more than one F substituent.
68. (Currently Amended) A composition according to claim 54 having a low acute

toxicity wherein said compound of Formula I consists essentially of one or more compounds wherein said fluoroalkene ~~wherein said fluoroalkene~~ includes an unsaturated terminal carbon and at least one substituent on the unsaturated terminal carbon is H.

- 69. (New) The composition of claim 1 wherein said composition is non-flammable.
- 70. (New) The composition of claim 1 wherein said compound of Formula 1 is selected from the group consisting of tetrafluoropropenes (HFO-1234), pentafluoropropenes (HFO-1225) and combinations of these.
- 71. (New) The composition of claim 1 wherein said compound of Formula 1 comprises at least one tetrafluoropropene.
- 72. (New) The composition of claim 1 wherein said compound of Formula 1 comprises 1, 3, 3, 3-tetrafluoropropene (HFO-1234ze).
- 73. (New) The composition of claim 1 wherein said compound of Formula 1 comprises 2, 3, 3, 3-tetrafluoropropene (HFO-1234yf).
- 74. (New) The composition of claim 1 wherein said compound of Formula 1 comprises at least one pentafluoropropene.
- 75. (New) The composition of claim 1 wherein said compound of Formula 1 comprises 1,2,3,3,3-pentafluoropropene (HFO-1225ye).
- 76. (New) The composition of claim 1 having a Global Warming Potential (GWP) of not greater than about 100.
- 77. (New) The composition of claim 1 having a Global Warming Potential (GWP) of not greater than about 75.
- 78. (New) The composition of claim 1 having an Ozone Depletion Potential (ODP) of not greater than about 0.05
- 79. (New) The composition of claim 1 having an ODP of not greater than about 0.02.
- 80. (New) The composition of claim 1 having an ODP of about zero.
- 81. (New) The composition of claim 1 wherein said composition is a refrigerant compositions and said compound(s) of Formula I at least about 70 % by weight of the composition.
- 82. (New) The composition of claim 1 comprising compatibilizer and wherein said

compatibilizer comprises at least one propane.

83. (New) The composition of claim 1 comprising compatibilizer and wherein said compatibilizer comprises at least one butane.

84. (New) The composition of claim 1 comprising compatibilizer and wherein said compatibilizer comprises at least one pentane.

85. (New) The composition of claim 1 comprising compatibilizer in amounts of from about 0.5 to about 5 percent by weight of the composition.

86. (New) The composition of claim 1 comprising sterilant and wherein said sterilant is selected from the group consisting of ethylene oxide (EO), formaldehyde, hydrogen peroxide, chlorine dioxide, ozone, and combinations of these.

87. (New) The composition of claim 1 wherein said compound of Formula 1 comprises HFO trans-1234ze.

88. (New) The composition of claim 1 wherein said compound of Formula 1 comprises HFO cis-1234ze.

89. (New) The composition of claim 1 wherein said compound of Formula 1 comprises HFO - 1243zf.

90. (New) A composition comprising:

(a) at least one fluoroalkene having a total of at least four halogen substituents and no bromine substituents, at least three of said halogen substituents being F and at least one of said halogen substituents being located on an unsaturated, non-terminal carbon atom, said compound being of Formula I:



where X is a C₂ or a C₃ unsaturated, substituted radical and each R is independently Cl, F, I or H and z is 1 to 3; and

(b) at least one adjuvant selected from the group consisting of lubricants, compatibilizers, surfactants, solubilizing agents, dispersing agents, cell stabilizers, cosmetics, polishing agents, medicaments, cleaners, fire retarding agents, colorants, chemical sterilants, stabilizers, polyols, polyol premix components and combinations of two or more of these, provided that when said adjuvant comprises lubricant, each R, is independently Cl, I or H and each other non-fluorine substituent is Cl or I.